CHECKLIST #0275 FOR THE APPROVAL OF: SKYLIGHTS

- ❑ Basic Requirements Checklist.

- ❑ One set of the manufacturer's 'approval document' including:
  a) Extrusion and/or typical section with details, properties and all dimensions as read by the laboratory with a caliper,
  b) Assembly details, including reinforcements, and
  c) Fastener and connecting details including size and location, corresponding with test and calculations.

- ❑ For cluster or monumental skylight units, calculations are required for structural integrity of the assembly with loads according to SFBC chapter 23 indicating:
  a) Aluminum stresses according to The Aluminum Association Specifications,
  b) Steel stresses according to AISC Steel Construction Manual,
  c) Deflection for load carrying members not to exceed L/180,
  d) Design of plastic materials according per section 3505.1 of the SFBC,
  e) Capacity and load documentation of anchors used. Anchor verification required for all cases.

- ❑ One set of manufacturer's design drawings marked and verified by the testing laboratory.

The following current laboratory tests and test reports in compliance with protocol PA 301.

- ❑ Impact test per PA201.

- ❑ Air infiltration, uniform static air, and water resistance tests per PA202.

- ❑ Cyclic test per PA203.

- ❑ Force entry resistance test required on operable skylights as per ASTM F588-85 (Level 10) or AAMA 1302.5.

Notes:
1. If skylight has plastic as a component, add the plastic checklist to these requirements.
2. The skylights must be labeled in accordance to ANSI Z 35.1-72 Class 1.
3. PA201 & PA203 are applicable if skylight approval is to include impact resistance.
4. If the skylight is installed on an open structure, it is exempt from PA201, PA203, and the water & air tests of PA202.
5. The following equation may be used to calculate the allowable cycle time for specimens larger than 75 ft^2 and with a width of more than 20 ft. and/or height of more than 8 ft. Maximum allowable cycle time for specimens over 75 ft^2 = (area of specimen – 75) x (0.06) +3 seconds Maximum allowable cycle time for this equation is not to exceed 10 seconds.